

LISTING OF CLAIMS

The listing of claims will replace all prior versions, and listings, of claims in the application:

Cancel Claim 1.

2. (Amended) A disk storage and playback device comprising:

a chassis;

a magazine nondetachably carried by said chassis, said magazine including means for receiving a plurality of substantially planar disks, each of said plurality of disks being received in a subframe received in said magazine such that said plurality of disks is aligned in a concentric array;

a disk reader for reading one of said disks when said one of said disks is in a disk-reading position;

first disk conveying means for transporting a selected one of said disks from said magazine to said disk-reading position along a straight line path in a plane of said disk;

second disk conveying means for transporting a disk not stored in said magazine to said disk-reading position;

means for displacing said magazine to bring a selected one of said disks into said plane;

[a plurality of subframes, each of said subframes including means for receiving a single one of said disks;

said magazine including means for receiving a plurality of said subframes;] and

a main frame for receiving a single one of said subframes;

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said main frame being movable carried by said chassis for movement between a first position, whereat a disk carried therein is in said disk-reading position, and a second position whereat access is provided to a subframe received therein such that a disk may be one of inserted therein and removed therefrom.

3. (Original) A disk storage and playback device according to claim 2, wherein said first disk conveying means comprises means for removing a selected one of said subframes from said magazine and for inserting the same into said mainframe.

Cancel claim 4.

5. (Original) A disk storage playback device comprising:

- a chassis;
- a plurality of subframes, each of said subframes being adapted to receive a single one of said disks;
- a magazine, nondetachably carried by said chassis, said magazine being adapted to receive a plurality of said subframes;
- a disk reader adapted to read one of said disks when said disk is in a disk-reading position;
- a main frame adapted to receive a single one of said subframes;
- said mainframe being movably carried by said chassis for movement between a first position, whereat a disk carried therein is in said disk-reading position, and a second position whereat access is provided to a subframe received therein such that a disk may be inserted therein or removed therefrom;

disk conveying means for transporting a selected one of said subframes from said magazine to said main frame when said main frame is in said first position; and

means operative when said main frame is in said first position for separating said main frame and a subframe received therein from a disk received therein, whereby said disk may be read by said disk reader.

6. (Original) The disk storage and playback device of claim 5, wherein said separating means comprises means for supporting said disk in said disk-reading position and means for displacing said main frame and said subframe received therein to a position nonobstructive to said disk reader.

7. (Amended) A disk storage and playback device comprising:
a chassis;
an n quantity of subframes, each of said subframes being adapted to receive a single disk;
a magazine, [nondetachabe] nondetachably, carried by said chassis, said magazine being adapted to receive n quantity of said subframes;

a mainframe;
n-1 of said subframes being received in said magazine when one of [a] said subframes is received in said mainframe;

a disk reader adapted to read one of said disks when said disk is in a disk-reading position;

said mainframe being adapted to receive a single one of said subframes, said mainframe being movably carried by said chassis for movement between a first position, whereat a disk

carried therein is in said disk-reading position, and a second position whereat access is provided to a subframe received therein such that a disk may be inserted therein; and

disk conveying means for transporting a selected one of said subframes from said magazine to said main frame when said main frame is in said first position.

Cancel claim 8.

Cancel claim 9.

10. (Original) A device for storing and playing disks comprising:

- a chassis;
- a disk reader accepting disks situated at a read position;
- storage means for storing a plurality of said disks;
- said storage means being nondetachably carried in said chassis;
- said storage means including a plurality of storage position, each for accepting a single one of said disks, arranged in a concentric stack;
- transport means for transporting said disks between an access position, said storage means, and said read position;
- said transport means transporting said disks along a single substantially planar path parallel to a plane of a surface of said disks and fixed relative to said chassis;
- means for aligning a selectable one of said storage positions with said single substantially planar path of said transport means; and
- said access position permitting external access for loading and unloading a single one of said disks, to and from, respectively, said storage means.

11. (Original) A device for storing and playing disks comprising:

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a chassis;
a disk reader accepting disks situated at a read position;
storage means for storing a plurality of said disks;
said storage means including a plurality of storage positions, each for accepting a single one of said disks, arranged in a concentric stack;
transport means for transporting said disks between an access position, said storage means, and said read position;
said transport means transporting said disks along a single substantially planar path parallel to a plane of a surface of said disks and fixed relative to said chassis;
means for aligning a selectable one of said storage positions with said single substantially planar path of said transport means;
said single substantially planar path being orthogonal to a direction of alignment of said storage means; and
said access position permitting external access for loading and unloading a single one of said disks, to and from, respectively, said storage means.

12. (Original) A device for storing and playing disks comprising:
a chassis;
a disk reader accepting disks situated at a read position;
storage means for storing a plurality of said disks;
said storage means being nondetachably carried in said chassis;
said storage means including a plurality of concentric storage positions, each for accepting a single one of said disks;

1 transport means for transporting said disks between said storage means and said read position;

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said transport means transporting said disks in a single plane fixed relative to said chassis and parallel to a surface of said disks transported;

means for aligning a selectable one of said storage positions with said single plane of said transport means;

said chassis defining an access aperture aligned with said single plane and permitting external access for loading and unloading a single one of said disks to and from said selected one of said storage positions in said storage means; and

ejection means for ejecting one of said disks, contained within said selected one of said storage locations, through said access aperture.

13. (Original) A device for storing and playing disks comprising:

a chassis;

a disk reader accepting disks situated at a read position;

storage means for storing a plurality of said disks;

said storage means being nondetachably carried in said chassis;

said storage means including a plurality of concentric storage positions, each for accepting a single one of said disks;

transport means for transporting said disks between said storage means and said read position;

said transport means transporting said disks in a single plane parallel to a surface of said disks transported and fixed relative to said chassis;

means for aligning a selectable one of said storage positions with said single plane of said

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transport means;

said chassis defining an access aperture permitting external access for loading and
unloading a single one of said disks, to and from said read position; and

ejection means for ejecting said single one of said disks from said read position to said
access aperture for purposes of unloading.

14. (Original) A device for storing and playing disks comprising:

a chassis;

a disk reader accepting disks situated at a read position;

storage means for storing a plurality of said disks;

said storage means being nondetachably carried in said chassis;

said storage means including a plurality of concentric storage positions, each for
accepting a single one of said disks;

transport means for transporting said disks between said storage means and said read
position;

said transport means transporting said disks in a single plane parallel to a surface of said
disks transported and fixed relative to said chassis;

means for aligning a selectable one of said storage positions with said single plane of said
transport means;

said chassis defining an access aperture, aligned with said single plane permitting
external access for loading and unlading a single one of said disks, to and from, said selected one

of said storage positions in said storage means while said storage means remains unexposed and within the storage and playback device;

El. cont ejection means for ejecting said single one of said disks contained within said selected one of said storage locations to an exposed position at said access aperture; and

said ejection means functioning in said single plane of said transport means.

15. (Original) A device for storing and playing disks comprising:

a chassis;

a disk reader accepting disks situated at a read position;

storage means for storing a plurality of said disks;

said storage means being nondetachably carried in said chassis;

said storage means including a plurality of concentric storage positions, each for accepting a single one of said disks;

a chassis defining an access aperture permitting external access for loading and unloading one of said disks, to and from, said storage and playback device;

said access aperture, said read position, and a selected one of said storage positions defining a single plane fixed relative to said chassis;

means for aligning said selected one of said storage positions with said single plane; and

transport means for transporting said disks substantially within said single plane and within said storage and playback device such that said disks may be stored, read, unladed, and loaded through said access aperture to and from a position extending outside said chassis.

16. (Original) A device for storing and playing disks comprising:

a chassis;

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a disk reader accepting disks situated at a read position;
storage means for storing a plurality of said disks;
said storage means being nondetachably carried in said chassis;
said storage means including a plurality of storage positions each for accepting a single one of said disks;

transport means for transporting one of said disks between an access position, a selectable one of said storage positions, and a read position;

said transport means transporting said one of said disks along a first substantially linear path between said access position and said storage means;

said transport means transporting said one of said disks along a second substantially linear path between said access position and said read position;

said first and second substantially linear paths being within a single transport plane fixed relative to said chassis;

means for aligning a selectable one of said storage positions with said single transport plane; and

said access position permitting external access for inserting and removing a single one of said disks, to and from, respectively, said transport means.

17. (Original) A device for storing and playing disks comprising:

a chassis;

a disk reader accepting disks situated at a read position;

storage means for storing a plurality of said disks;

said storage means being nondetachably carried in said chassis;

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said storage means including a plurality of storage positions each for accepting a single one of said disks;

transport means for transporting one of said disks between an access position, a selectable one of said storage positions, and a read position;

said transport means transporting said one of said disks along a first substantially linear path between said access position and said storage means;

said transport means transporting said one of said disks along a second substantially linear path between said storage means and said read position;

said first and second substantially linear paths being within a single transport plane fixed relative to said chassis;

means for aligning a selectable one of said storage positions with said single transport plane; and

said access position permitting external access for inserting and removing a single one of said disks, to and from, respectively, said transport means.

18. (Original) A device for storing and playing disks comprising:

a chassis;

a disk reader accepting a disk situated at a read position;

storage means for storing a plurality of said disks;

said storage means being nondetachably carried in said chassis;

said storage means including a plurality of storage positions each for accepting a single one of said disks;

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transport means for transporting one of said disks between an access position, a selectable one of said storage positions, and a read position;

said transport means transporting said one of said disks along a first substantially linear path between said access position and said read position;

said transport means transporting said one of said disks along a second substantially linear path between said storage means and said read position;

said first and second substantially linear paths being within a transport plane fixed relative to said chassis;

means for aligning a selectable one of said storage positions with said transport plane; and

said access position permitting external access for inserting and removing a single one of said disks, to and from, respectively, said transport means.

19. (Original) A device for storing and playing disks comprising:

a chassis;

a disk reader accepting a disk situated at a read position;

storage means for storing a plurality of said disks;

said storage means being nondetachably carried in said chassis;

said storage means including a plurality of storage positions each for accepting a single one of said disks;

transport means for transporting one of said disks;

means for aligning a selectable one of said storage positions with said transport means;

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said transport means transporting said one of said disks between an access position, said selectable one of said storage positions, and a read position;

said transport means transporting said disks along a substantially linear path in a single plane parallel to a surface of said disks and fixed relative to said chassis;

said transport means being fixed, relative to said chassis, in a direction orthogonal to said single plane; and

said access position permitting external access for inserting and removing said disks, to and from, respectively, said storage means.

20. (Original) A device for storing and playing disks comprising:

a chassis;

a mainframe for carrying disks;

a magazine, nondetachably carried in said chassis, having a plurality of means for holding disks in a concentric array;

a disk reader including means for reading disks at a first position in alignment with said disk reader;

first disk transport means for transporting disks between said magazine and said mainframe at said first position along a first straight line path;

second disk transport means for transporting said mainframe along a second straight line path between said first position and an access position whereat disks are loaded and unloaded to and from said device;

means for selectively aligning said first disk transport means and said magazine for transporting a selected disk to and from said magazine; and

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means for controlling said first and second transport means to enable loading and unloading of said magazine via said access position without said disk reader reading said disk.

21. (Original) A device for storing and playing disks comprising:

a chassis;

a mainframe for carrying disks;

a magazine, nondetachably carried in said chassis, having a plurality of means for holding disks in a concentric array;

a disk reader for reading disks at a first position in alignment with said disk reader;

said mainframe accepting one of said disks;

first disk transport means for transporting a selected disk between said magazine and said mainframe at said first position along a first straight line path in a plane of said disk;

second disk transport means for transporting said mainframe between said first position and an access position, whereat disks are loaded and unloaded to and from said device, along a second straight line path;

means for selectively aligning said first disk transport means and said magazine for transporting a selected disk to and from said magazine;

means for displacing said selected disk from said first position to a reader engaged position at said disk reader for reading; and

means for controlling said first and second transport means to enable loading and unloading of said magazine via said access position without said disk reader reading said disk.

22. (Original) A device for storing and playing disks comprising:

a chassis;

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subframes for carrying disks;
a magazine, nondetachably carried in said chassis, having a plurality of means for holding said subframes in a concentric array;
a disk reader having a turntable for reading disks at a first position in alignment with said disk reader;
a mainframe for accepting one of said subframes;
first disk transport means for transporting a selected disk in one of said subframes between said magazine and said mainframe at said first position;
second disk transport means for transporting said mainframe between said first position and an access position whereat disks are loaded and unloaded to and from said device;
means for displacing said selected disk from said first position to said turntable of said disk reader; and
means for controlling said first and second transport means to enable loading and unloading of said magazine via said access position without said disk reader reading said disk.

23. (Original) A device for storing and playing disks comprising:
a chassis;
subframes for carrying disks;
a magazine, nondetachably carried in said chassis, having a plurality of means for holding said subframes in a concentric array;
a disk reader having a turntable for reading disks at a first position in alignment with said disk reader;

first disk transport means for transporting a selected disk in one of said subframes
between said magazine and said mainframe at said first position;

second disk transport means for transporting said selected disk between said first position
and an access position whereat disks are loaded and unloaded to and from said device;

means for selectively aligning said first disk transport means and said magazine for
transporting said selected disk to and from said magazine;

means for displacing said selected disk from said first position to said turntable of said
disk reader; and

means for controlling said first and second transport means to enable loading and
unloading of said magazine via said access position without said disk reader reading said disk.

24. (Original) A device for storing and playing disks comprising:

a chassis;

a magazine, nondetachably carried in a non-exposed position within said chassis;

said magazine having a plurality of means for holding said disks in a concentric array;

a disk reader including a turntable and a means for reading disks at a first position in
alignment with said turntable;

first disk transport means for transporting a selected disk of said disks between said
magazine and said first position;

second disk transport means for transporting said selected disk between said first position
and an access position whereat disks are loaded and unloaded to and from said device;

means for selectively aligning said first disk transport means and said magazine for
transporting said selected disk to and from said magazine; and

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com* means for controlling said first and second transport means to enable loading and unloading of said magazine via said access position without said disk reader reading said disk.

25. (Original) A device for storing and playing disks comprising:

a chassis;

subframes for carrying disks;

a magazine, nondetachably carried in said chassis, having means for holding said subframes in a concentric array;

a disk reader;

means for transporting a selected one of said subframes between said magazine and an access position whereat a disk is loaded and unloaded to and from said selected one of said subframes; and

means for controlling said means for transporting to enable loading and unloading of said magazine via said access position without said disk reader reading said disk.

26. (Original) A device for storing and playing disks comprising:

a chassis;

subframes for carrying disks;

a magazine nondetachably carried in said chassis;

means for holding said subframes in a concentric array in said magazine;

a disk reader;

a mainframe for accepting one of said subframes;

subframe transport means for transporting a selected one of said subframes between said magazine and said mainframe;

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mainframe transport means for transporting said mainframe between an accept position whereat said selected one of said subframes is accepted and an access position whereat said disk is loaded and unloaded to and from said selected one of said subframes; and

means for controlling said means for transporting to enable loading and unloading of said magazine via said access position without said disk reader reading said disk.

Cancel Claims 27-28.

29. A disk storage and playback device comprising:

a chassis;

a magazine nondetachably carried by said chassis, said magazine including means for receiving a plurality of substantially planar disks in a concentric array;

a disk reader for reading one of said disks when said one of said disks is in a disk-reading position;

first disk conveying means for transporting a selected one of said disks from said magazine to said disk-reading position along a first straight line path in a plane of said disk;

second disk conveying means for transporting a disk not stored in said magazine in a second straight line path beginning outside said disk storage and playback device to said magazine within said disk storage and playback device; and

means for displacing said magazine to bring said selected one of said disks into said plane.

30. The disk storage and playback device of claim 29, wherein said second disk conveying

means includes means for transporting disks in said plane, along said second straight line

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path which is an extension of said first straight line path of said first disk conveying means.

31. A disk storage and playback device comprising:

a chassis;

a magazine nondetachably carried by said chassis, said magazine including means for receiving a plurality of substantially planar disks in a concentric array;

a disk reader for reading one of said disks when said one of said disks is in a disk-reading position;

a first position inside said disk storage and playback device;

first disk conveying means for transporting a selected one of said disks from said magazine to said first position along a first straight line path in a plane of said disk;

second disk conveying means for transporting a disk not stored in said magazine in a second straight line path beginning outside said disk storage and playback device to said first position within said disk storage and playback device;

means for moving said one of said disks from said first position to said disk-reading position; and

means for displacing said magazine to bring said selected one of said disks into said plane.

32. The disk storage and playback device of claim 31, wherein said second disk conveying

means includes means for transporting disks in said plane, along said second straight line

path which is an extension of said first straight line path of said first disk conveying

means.

33. A disk storage and playback device comprising:

a chassis;

a magazine nondetachably carried by said chassis, said magazine including means for receiving a plurality of substantially planar disks in a concentric array;

a disk reader for reading one of said disks when said one of said disks is in a disk-reading position;

a first position inside said disk storage and playback device;

first disk conveying means for transporting a selected one of said disks from said magazine to a position outside said disk storage and playback device along a first straight line path in a plane of said disk;

second disk conveying means for transporting a disk not stored in said magazine in a second straight line path beginning outside said disk storage and playback device to said first position within said disk storage and playback device;

means for moving said disk not stored in said magazine from said first position to said disk-reading position; and

means for displacing said magazine to bring said selected one of said disks into said plane.

34. The disk storage and playback device of claim 33, wherein said second disk conveying

means includes means for transporting disks in said plane, along said second straight line path which is an extension of said first straight line path of said first disk conveying means.

35. A disk storage and playback device comprising:

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a chassis;
a magazine nondetachably carried by said chassis, said magazine including means for
receiving a plurality of substantially planar disks in a concentric array;
a disk reader for reading one of said disks when said one of said disks is in a disk-reading
position;
a first position inside said disk storage and playback device;
first disk conveying means for transporting a selected one of said disks from said
magazine to said first position along a first straight line path in a plane of said disk;
second disk conveying means for transporting a disk not stored in said magazine in a
second straight line path in said plane beginning outside said disk storage and playback device to
said magazine within said disk storage and playback device;
means for moving said selected one of said disks from said first position to said disk-
reading position; and
means for displacing said magazine to bring said selected one of said disks into said
plane.

36. The disk storage and playback device of claim 35, wherein said second disk conveying
means includes means for transporting disks in said plane, along said second straight line
path which is an extension of said first straight line path of said first disk conveying
means.

37. A disk storage and playback device comprising:
a chassis;

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a magazine nondetachably carried by said chassis, said magazine including means for receiving a plurality of substantially planar disks, each of said plurality of disks being received in a subframe received in said magazine. such that said plurality of disks is aligned in a concentric array;

a disk reader for reading one of said disks when said one of said disks is in a disk-reading position;

first disk conveying means for transporting a selected one of said disks from said magazine to a first position, inside said disk storage and playback device, along a straight line path in a plane of said disk;

second disk conveying means for transporting a disk not stored in said magazine to said first position;

means for displacing said magazine to bring said selected one of said disks into said plane;

a main frame for receiving a single one of said subframes;

said main frame being movably carried by said chassis for movement between said first position and a second position, whereat access is provided to a subframe received therein such that a disk may be one of inserted therein and removed therefrom; and

means for moving said disk from said first position to said disk-reading position.

38. A disk storage and playback device comprising:

a chassis;

a magazine nondetachably carried by said chassis, said magazine including means for receiving a plurality of substantially planar disks, each of said plurality of disks being received in

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a subframe received in said magazine, such that said plurality of disks is aligned in a concentric

array;

a disk reader for reading one of said disks when said one of said disks is in a disk-
reading position;

first disk conveying means for transporting a selected one of said disks from said
magazine to said disk-reading position along a straight line path in a plane of said disk;

second disk conveying means for transporting a disk not stored in said

magazine to said disk-reading position;

means for displacing said magazine to bring a selected one of said disks into said plane;

a main frame for receiving a single one of said subframes;

said main frame being movably carried by said chassis for movement between a first
position, and a second position whereat access is provided to a subframe received therein such
that a disk may be one of inserted therein and removed therefrom: and

means for moving said disk from said first position to said disk-reading position.

39. A disk storage and playback device according to claim 38, wherein said first disk

conveying means comprises means for removing a selected one of said subframes from
said magazine and for inserting the same into said main frame.

40. A disk storage and playback device comprising:

a chassis;

a plurality of subframes, each of said subframes being adapted to receive a single one of
said disks;

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a magazine, nondetachably, carried by said chassis, said magazine being adapted to receive a plurality of said subframes;

a disk reader adapted to read one of said disks when said disk is in a disk-reading position;

a main frame adapted to receive a single one of said subframes;

said mainframe being movably carried by said chassis for movement between a first position inside said disk storage and playback device, and a second position whereat access is provided to a subframe received therein such that a disk may be inserted therein or removed therefrom;

disk conveying means for transporting a selected one of said subframes from said magazine to said main frame when said main frame is in said first position; and

means for separating said main frame and a subframe received therein from a disk received therein, whereby said disk may be read by said disk reader.

41. The disk storage and playback device of claim 40, wherein said separating means comprises means for supporting said disk in said disk-reading position and means for displacing said main frame and said subframe received therein to a position nonobstructive to said disk reader.

42. A disk storage and playback device comprising:

a chassis;

an n quantity of subframes, each of said subframes being adapted to receive a single disk;

a magazine, nondetachably, carried by said chassis, said magazine being adapted to receive n quantity of said subframes;

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a mainframe;
n-l of said subframes being received in said magazine when one of a subframes is
received in said mainframe;

a disk reader adapted to read one of said disks when said disk is in a disk-reading
position;

said mainframe being adapted to receive a single one of said subframes, said mainframe
being movably carried by said chassis for movement between a first position at least partly inside
said disk storage and playback device, and a second position whereat access is provided to a
subframe received therein such that a disk may be inserted therein;

means for moving said disk from said mainframe in said first position to said disk-
reading position; and

disk conveying means for transporting a selected one of said subframes from said
magazine to said main frame when said main frame is in said first position.

43. A disk storage and playback device comprising:

a chassis;

a magazine nondetachably carried by said chassis;

said magazine including a plurality of disk storage locations therein;

a disk reader;

means for displacing said magazine to align a desired one of said disk storage locations at
a desired level;

first disk transport means for moving a disk in said desired one of said disk storage
locations in a first substantially straight line from said magazine to said disk reader;

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Com* said first disk transport means being further effective for moving said disk from said disk reader back to its respective disk storage location in said first substantially straight line;

second disk transport means for moving a disk in a second substantially straight line from outside said disk storage and playback device to said disk reader; and

means, effective without requiring reading of said disk, for moving said disk from said second disk transport means to said first disk transport means, whereby said first disk transport means is enabled to deposit said disk, originating outside said device, in an empty one of said disk storage locations, thereby permitting stocking said magazine with disks.

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45. A disk storage and playback device comprising:
a chassis;
a magazine nondetachably carried by said chassis, said magazine including means for receiving a plurality of substantially planar disks in a concentric array;
a disk reader for reading one of said disks when said one of said disks is in a disk-reading position;

first disk conveying means for transporting a selected one of said disks from said magazine to a first position aligned with said disk-reading position along a first straight line path in a transport plane parallel to a primary plane of said selected one of said disks transported along said first straight line path;

second disk conveying means for transporting a disk not stored in said magazine in a second straight line path beginning at an access position at least partly outside said disk storage and playback device to said first position within said disk storage and playback device; and

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means for displacing at least one of said magazine and said transport plane to bring said selected one of said disks into said transport plane, said first position being substantially fixed relative to said disk-reading position, despite a displacement of said one of said magazine and said transport plane.

46. A device as in claim 45, wherein said first disk conveying means includes means for transporting said selected one of said disks in forward and reverse directions along said first straight line path.

47. A device as in claim 46, wherein an entirety of said first straight line path is defined by the intersection of mutually perpendicular planes.

48. A device as in claim 45, wherein said second disk conveying means includes means for transporting said selected one of said disks in forward and reverse directions along said second straight line path.

49. A device as in claim 48, wherein an entirety of said first straight line path is defined by the intersection of mutually perpendicular planes.

50. A device as in claim 48, wherein said first disk conveying means includes means for transporting said selected one of said disks in forward and reverse directions along said first straight line path.

51. A device as in claim 50, wherein an entirety of said first straight line path is defined by the intersection of mutually perpendicular planes.

52. A device as in claim 45, wherein an entirety of said first straight line path is defined by the intersection of mutually perpendicular planes.

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53. A device as in claim 45, wherein said second straight line path lies in said transport plane.

54. A disk storage and playback device comprising:
a chassis;
a magazine nondetachably carried by said chassis, said magazine including means for receiving a plurality of substantially planar disks in a concentric array;
a disk reader for reading one of said disks when said one of said disks is in a disk-reading position
first disk conveying means for transporting a selected one of said disks from said magazine to a first position aligned with said disk-reading position along a first straight fine path in a transport plane parallel to a primary plane of said selected one of said disks transported along said first straight line path;
second disk conveying means for transporting a disk not stored in said magazine in a second straight line path beginning at an access position at least partly outside said disk storage and playback device to said first position within said disk storage and playback device; and
means for displacing said selected one of said disks into said transport plane;
said selected one of said disks being disengageable, while at said first position, from said first disk conveying means to permit reading by said disk reader.

55. A device as in claim 54, wherein said first disk conveying means includes means for transporting said selected one of said disks in forward and reverse directions along said first straight line path.

56 56. A device as in claim 55, wherein an entirety of said first straight line path is defined by the intersection of mutually perpendicular planes.

57. A device as in claim 54, wherein said second disk conveying means includes means for transporting said selected one of said disks in forward and reverse directions along said second straight line path.

58. A device as in claim 57, wherein an entirety of said first straight line path is defined by the intersection of mutually perpendicular planes.

59. A device as in claim 57, wherein said first disk conveying means includes means for transporting said selected one of said disks in forward and reverse directions along said first straight line path.

60. A device as in claim 59, wherein an entirety of said first straight line path is defined by the intersection of mutually perpendicular planes.

61. A device as in claim 54, wherein an entirety of said first straight line path is defined by the intersection of mutually perpendicular planes.

62. A device as in claim 54, wherein said second straight line path lies in said transport plane.

63. A disk storage and playback device comprising:
a chassis;
a magazine nondetachably carried by said chassis, said magazine including means for receiving a plurality of substantially planar disks in a concentric array;
a disk reader for reading one of said disks when said one of said disks is in a disk-reading position;

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a disk conveyor with at least one drive element engageable with a selected one of said disks and movable in at least one range such as to transport said selected one of said disks from said magazine to a first position aligned with said disk-reading position, along a first straight line path, in a transport plane parallel to a primary plane of said selected one of said disks, transported along said first straight line path, and such as to transport a disk not stored in said magazine in a second straight line path beginning at an access position at least partly outside said disk storage and playback device to said first position within said disk storage and playback device; and

means for displacing at least one of said magazine and said transport plane to bring said selected one of said disks into said transport plane, said first position being substantially fixed relative to said disk-reading position, despite a displacement of said one of said magazine and said transport plane.

64. A device as in claim 63, wherein said drive element is movable in forward and reverse directions such as to transport said selected one of said disks in forward and reverse directions along said first straight line path.

65. A device as in claim 64, wherein an entirety of said first straight line path is defined by the intersection of mutually perpendicular planes.

66. A device as in claim 63, wherein said drive element is movable in forward and reverse directions such as to transport said selected one of said disks in forward and reverse directions along said second straight line path.

67. A device as in claim 66, wherein an entirety of said first straight line path is defined by the intersection of mutually perpendicular planes.

68. A device as in claim 66, wherein said drive element is movable in forward and reverse directions such as to transport said selected one of said disks in forward and reverse directions along said first straight line path.

69. A device as in claim 68, wherein an entirety of said first straight line path is defined by the intersection of mutually perpendicular planes.

70. A device as in claim 63, wherein an entirety of said first straight line path is defined by the intersection of mutually perpendicular planes.

71. A device as in claim 63, wherein said second straight line path lies in said transport plane.

72. A disk storage and playback device comprising:
a chassis;
a magazine nondetachably carried by said chassis, said magazine including means for receiving a plurality of substantially planar disks in a concentric array;
a disk reader for reading one of said disks when said one of said disks is in a disk-reading position;
a disk conveyor with at least one drive element engageable with a selected one of said disks and movable in at least one range such as to transport said selected one of said disks, from said magazine to a first position aligned with said disk-reading position, along a first straight line path, in a transport plane parallel to a primary plane of said selected one of said disks transported along said first straight line path, and such as to transport said selected one of said disks in a second straight line path beginning at an access position at least partly outside said

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cont* disk storage and playback device to said first position within said disk storage and playback device; and

means for displacing at least one of said magazine and said transport plane to bring said selected one of said disks into said transport plane;

said selected one of said disks being disengageable, while at said first position, from said at least one drive element to permit reading by said reader.

73. A device as in claim 72, wherein said drive element is movable in forward and reverse directions such as to transport said selected one of a said disks in forward and reverse directions along said first straight line path.

74. A device as in claim 73, wherein an entirety of said first straight line path is defined by the intersection of mutually perpendicular planes.

75. A device as in claim 72, wherein said drive element is movable in forward and reverse directions such as to transport said selected one of said disks in forward and reverse directions along said second straight line path.

76. A device as in claim 75, wherein an entirety of said first straight line path is defined by the intersection of mutually perpendicular planes.

77. A device as in claim 75, wherein said drive element is movable in forward and reverse directions such as to transport said selected one of said disks in forward and reverse directions along said first straight line path.

78. A device as in claim 77, wherein an entirety of said first straight line path is defined by the intersection of mutually perpendicular planes.

79. A device as in claim 72, wherein an entirety of said first straight line path is defined by the intersection of mutually perpendicular planes.

80. A device as in claim 72, wherein said second straight line path lies in said transport plane.

81. A disk storage and playback device comprising:
a chassis;
a magazine nondetachably carried by said chassis, said magazine including means for receiving a plurality of substantially planar disks in a concentric array;
a disk reader for reading one of said disks when said one of said disks is in a disk-reading position;
first disk conveying means for transporting a selected one of said disks from said magazine to a first position aligned with said disk-reading position along a first straight line path in a transport plane parallel to a primary plane of said selected one of said disks transported along said first straight line path;
second disk conveying means for transporting a disk not stored in said magazine in a second straight line path beginning at an access position at least partly outside said disk storage and playback device to said magazine within said disk storage and playback device; and
means for displacing at least one of said magazine and said transport plane to bring, said selected one of said disks into said transport plane, said first position being substantially fixed relative to said disk-reading position, despite a displacement of said one of said magazine and said transport plane.

82. A device as in claim 81, wherein said first disk conveying means includes means for transporting said selected one of said disks in forward and reverse directions along said first straight line path.

83. A device as in claim 82, wherein an entirety of said first straight line path is defined by the intersection of mutually perpendicular planes.

84. A device as in claim 83, wherein said second disk conveying means includes means for transporting said selected one of said disks in forward and reverse directions along said second straight line path.

85. A device as in claim 84, wherein an entirety of said first straight line path is defined by the intersection of mutually perpendicular planes.

86. A device as in claim 84, wherein said first disk conveying means includes means for transporting said selected one of said disks in forward and reverse directions along said first straight line path.

87. A device as in claim 86, wherein an entirety of said first straight line path is defined by the intersection of mutually perpendicular planes.

88. A device as in claim 81, wherein an entirety of said first straight line path is defined by the intersection of mutually perpendicular planes.

89. A device as in claim 81, wherein said second straight line path lies in said transport plane.

90. A disk storage and playback device comprising:
a chassis;

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a magazine nondetachably carried by said chassis, said magazine including means for receiving a plurality of substantially planar disks in a concentric array;

a disk reader for reading one of said disks when said one of said disks is in a disk-reading position;

first disk conveying means for transporting a selected one of said disks from said magazine to a first position aligned with said disk-reading position along a first straight line path in a transport plane parallel to a primary plane of said selected one of said disks transported along said first straight line path;

second disk conveying means for transporting a disk not stored in said magazine in a second straight line path beginning at an access position at least partly outside said disk storage and playback device to said magazine within said disk storage and playback device; and

means for displacing at least one of said magazine and said transport plane to bring said selected one of said disks into said transport plane;

said selected one of said disks being disengageable, while at said first position, from said first disk conveying means to permit reading by said disk reader.

91. A device as in claim 90, wherein said first disk conveying means includes means for transporting said selected one of said disks in forward and reverse directions along said first straight line path.

92. A device as in claim 91, wherein an entirety of said first straight line path is defined by the intersection of mutually perpendicular planes.

93. A device as in claim 92, wherein said second disk conveying means includes means for transporting said selected one of said disks in forward and reverse directions along said second straight line path.

94. A device as in claim 93, wherein an entirety of said first straight line path is defined by the intersection of mutually perpendicular planes.

95. A device as in claim 93, wherein said first disk conveying means includes means for transporting said selected one of said disks in forward and reverse directions along said first straight line path.

96. A device as in claim 95, wherein an entirety of said first straight line path is defined by the intersection of mutually perpendicular planes.

97. A device as in claim 90, wherein an entirety of said first straight line path is defined by the intersection of mutually perpendicular planes.

98. A device as in claim 90, wherein said second straight line path lies in said transport plane.

99. A disk storage and playback device comprising,
a chassis;
a magazine nondetachably carried by said chassis, said magazine including means for receiving a plurality of substantially planar disks in a concentric array;
a disk reader for reading one of said disks when said one of said disks is in a disk-reading position;

a disk conveyor with at least one drive element engageable with a selected one of said disks and movable in at least one range such as to transporting said selected one of said disks

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from said magazine to a first position aligned with said disk-reading position, along a first straight line path in a transport plane parallel to a primary plane of said selected one of said disks transported along said first straight line path, and such as to transport said selected one of said disks in a second straight line path beginning at an access position at least partly outside said disk storage and playback device to said magazine within said disk storage and playback device; and

means for displacing at least one of said magazine and said transport plane to bring said selected one of said disks into said transport plane, said first position being substantially fixed relative to said disk-reading position, despite a displacement of said one of said magazine and said transport plane.

100. A device as in claim 99, wherein said drive element is movable in forward and reverse directions such as to transport said selected one of said disks in forward and reverse directions along said first straight line path.

101. A device as in claim 100, wherein an entirety of said first straight line path is defined by the intersection of mutually perpendicular planes.

102. A device as in claim 99, wherein said drive element is movable in forward and reverse directions such as to transport said selected one of said disks in forward and reverse directions along said second straight line path.

103. A device as in claim 102, wherein an entirety of said first straight line path is defined by the intersection of mutually perpendicular planes.

104. A device as in claim 102, wherein said drive element is movable in forward and reverse directions such as to transport said selected one of said disks in forward and reverse directions along said first straight line path.

105. A device as in claim 104, wherein an entirety of said first straight line path is defined by the intersection of mutually perpendicular planes.

106. A device as in claim 99, wherein an entirety of said first straight line path is defined by the intersection of mutually perpendicular planes.

107. A device as in claim 99, wherein said second straight line path lies in said transport plane.

108. A disk storage and playback device comprising:
a chassis;
a magazine nondetachably carried by said chassis, said magazine including means for receiving a plurality of substantially planar disks in a concentric array;
a disk reader for reading one of said disks when said one of said disks is in a disk-reading position;

a disk conveyor with at least one drive element engageable with a selected one of said disks and movable in at least one range such as to transport said selected one of said disks from said magazine to a first position aligned with said disk-reading position, along a first straight line path, in a transport plane to a primary plane of said selected one of said disks transported along said first straight line path and such as to transport said selected one of said disks in a second straight line path beginning at an access position at least partly outside said disk storage and playback device to said magazine within said disk storage and playback devices; and

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means for displacing at least one of said magazine and said transport plane to bring said selected one of said disks into said transport plane;

said selected one of said disks being disengageable, while at said first position, from said at least one drive element to permit reading by said reader.

109. A device as in claim 108, wherein said drive element is movable in forward and reverse directions such as to transport said selected one of said disks in forward and reverse directions along said first straight line path.

110. A device as in claim 109, wherein an entirety of said first straight line path is defined by the intersection of mutually perpendicular planes.

111. A device as in claim 108, wherein said drive element is movable in forward and reverse directions such as to transport said selected one of said disks in forward and reverse directions along said second straight line path.

112. A device as in claim 111, wherein an entirety of said first straight line path is defined by the intersection of mutually perpendicular planes.

113. A device as in claim 111, wherein said drive element is movable in forward and reverse directions such as to transport said selected one of said disks in forward and reverse directions along said first straight line path.

114. A device as in claim 113, wherein an entirety of said first straight line path is defined by the intersection of mutually perpendicular planes.

115. A device as in claim 108, wherein an entirety of said first straight line path is defined by the intersection of mutually perpendicular planes.

Can 116. A device as in claim 108, wherein said second straight line path lies in said transport plane.

117. A disk storage and playback device comprising:
a chassis;
a magazine nondetachably carried by said chassis, said magazine including means for
receiving a plurality of substantially planar disks in a concentric array;
a disk reader for reading one of said disks when said one of said disks is in a disk-reading
position;
first disk conveying means for transporting a selected one of said disks from said
magazine to an access position along a first straight line path in a transport plane parallel to a
primary plane of said selected one of said disks transported along said first straight line path;
second disk conveying means for transporting a disk not stored in said magazine in a
second straight line path being at said access position, located at least partly outside said disk
storage and playback device, to a first position aligned with said disk-reading position within
said disk storage and playback device; and
means for displacing at least one of said magazine and said transport plane to bring said
selected one of said disks into said transport plane, said first position being substantially fixed
relative to said disk-reading position, despite a displacement of said one of said magazine and
said transport plane.

118. A device as in claim 117, wherein said first disk conveying means includes means
for transporting said selected one of said disks in forward and reverse directions along said first
straight line path.

119. A device as in claim 118, wherein an entirety of said first straight line path is defined by the intersection of mutually perpendicular planes.

120. A device as in claim 117, wherein said second disk conveying means includes means for transporting said selected one of said disks in forward and reverse directions along said second straight line path.

121. A device as in claim 120, wherein an entirety of said first straight line path is defined by the intersection of mutually perpendicular planes.

122. A device as in claim 120, wherein said first disk conveying means includes means for transporting said selected one of said disks in forward and reverse directions along said first straight line path.

123. A device as in claim 122, wherein an entirety of said first straight line path is defined by the intersection of mutually perpendicular planes.

124. A device as in claim 117, wherein an entirety of said first straight line path is defined by the intersection of mutually perpendicular planes.

125. A device as in claim 117, wherein said second straight line path lies in said transport plane.

126. A disk storage and playback device comprising:

a chassis;

a magazine nondetachably carried by said chassis, said magazine including means for receiving a plurality of substantially planar disks in a concentric array;

a disk reader for reading one of said disks when said one of said disks is in a disk-reading position;

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first disk conveying means for transporting a selected one of said disks from said magazine to an access position along a first straight line path in a transport plane parallel to a primary plane of said selected one of said disks transported along said first straight line paths;

second disk conveying means for transporting a disk not stored in said magazine in a second straight line path beginning at said access position, located at least partly outside said disk storage and playback device, to a first position aligned with said disk-reading position within said disk storage and playback device; and

means for displacing at least one of said magazine and said transport plane to bring said selected one of said disks into said transport plane;

said selected one of said disks being disengageable, while at said first position, from said first disk conveying means to permit reading by said disk reader.

127. A device as in claim 126, wherein said first disk conveying means includes means for transporting said selected one of said disks in forward and reverse directions along said first straight line path.

128. A device as in claim 127, wherein an entirety of said first straight line path is defined by the intersection of mutually perpendicular planes.

129. A device as in claim 126, wherein said second disk conveying means includes means for transporting said selected one of said disks in forward and reverse directions along said second straight line path.

130. A device as in claim 129, wherein an entirety of said first straight line path is defined by the intersection of mutually perpendicular planes.

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131. A device as in claim 129, wherein said first disk conveying means includes means for transporting said selected one of said disks in forward and reverse directions along said first straight line path.

132. A device as in claim 131, wherein an entirety of said first straight line path is defined by the intersection of mutually perpendicular planes.

133. A device as in claim 126, wherein an entirety of said first straight line path is defined by the intersection of mutually perpendicular planes.

134. A device as in claim 126, wherein said second straight line path lies in said transport plane.

135. A disk storage and playback device comprising:
a chassis;
a magazine nondetachably carried by said chassis, said magazine including means for receiving a plurality of substantially planar disks in a concentric array;
a disk reader for reading one of said disks when said one of said disks is in a disk-reading position;

a disk conveyor with at least one drive element engageable with a selected one of said disks and movable in at least one range such as to transport said selected one of said disks from said magazine to an access position along a first straight line path, in a transport plane parallel to a primary plane of said selected one of said disks transported along said first straight line path, and such as to transport said selected one of said disks in a second straight line path beginning at said access position, located at least partly outside said disk storage and playback device, to a

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first position aligned with said disk-reading position within said disk storage and playback device; and

means for displacing at least one of said magazine and said transport plane to bring said selected one of said disks into said transport plane, said first position being substantially fixed relative to said disk-reading, position, despite a displacement of said one of said magazine and said transport plane.

136. A device as in claim 135, wherein said drive element is movable in forward and reverse directions such as to transport said selected one of said disks in forward and reverse directions along said first straight line path.

137. A device as in claim 136, wherein an entirety of said first straight line path is defined by the intersection of mutually perpendicular planes.

138. A device as in claim 135, wherein said drive element is movable in forward and reverse directions such as to transport said selected one of said disks in forward and reverse directions along said second straight line path.

139. A device as in claim 138, wherein an entirety of said first straight line path is defined by the intersection of mutually perpendicular planes.

140. A device as in claim 138, wherein said drive element is movable in forward and reverse directions such as to transport said selected one of said disks in forward and reverse directions along said first straight line path.

141. A device as in claim 140, wherein an entirety of said first straight line path is defined by the intersection of mutually perpendicular planes.

142. A device as in claim 135, wherein an entirety of said first straight line path is defined by the intersection of mutually perpendicular planes.

143. A device as in claim 135, wherein said second straight line path lies in said transport plane.

144. A disk storage and playback device comprising:

a chassis;

a magazine nondetachably carried by said chassis, said magazine including means for receiving a plurality of substantially planar disks in a concentric array;

a disk reader for reading one of said disks when said one of said disks is in a disk-reading position;

a disk conveyor with at least one drive element engageable with a selected one of said disks and movable in at least one range such as to transport said selected one of said disks from said magazine to an access position along a first straight line path in a transport plane parallel to a primary plane of said selected one of said disks transported along said first straight line path, and such as to transport said selected one of said disks in a second straight line path beginning at said access position, located at least partly outside said disk storage and playback device, to a first position aligned with said disk-reading position within said disk storage and playback device; and

means for displacing at least one of said magazine and said transport plane to bring said selected one of said disks into said transport plane;

said selected one of said disks being disengageable, while at said first position, from said at least one drive element, to permit reading, by said disk reader.

145. A device as in claim 144, wherein said drive element is movable in forward and reverse directions such as to transport said selected one of said disks in forward and reverse directions along said first straight line path.

146. A device as in claim 145, wherein an entirety of said first straight line path is defined by the intersection of mutually perpendicular planes.

147. A device as in claim 144, wherein said drive element is movable in forward and reverse directions such as to transport said selected one of said disks in forward and reverse directions along said second straight line path.

148. A device as in claim 147, wherein an entirety of said first straight line path is defined by the intersection of mutually perpendicular planes.

149. A device as in claim 147, wherein said drive element is movable in forward and reverse directions such as to transport said selected one of said disks in forward and reverse directions along said first straight line path.

150. A device as in claim 149, wherein an entirety of said first straight line path is defined by the intersection of mutually perpendicular planes.

151. A device as in claim 144, wherein an entirety of said first straight line path is defined by the intersection of mutually perpendicular planes.

152. A device as in claim 144, wherein said second straight line path lies in said transport plane.

153. A disk storage and playback device comprising:
a chassis;

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a plurality of subframes, each of said subframes including means for receiving a single one of a plurality of disks;

a magazine nondetachably carried by said chassis, said magazine including means for receiving said plurality of subframes such as to hold said plurality of substantially planar disks in a concentric array;

a disk reader for reading one of said disks when said one of said disks;

first disk conveying means for transporting a selected one of said disks from said magazine to said disk-reading position along a straight line path in a transport plane parallel to a primary plane of said disk transported along said straight line path;

second disk conveying means for transporting a disk not stored in said magazine from a first position to said disk-reading position;

means for displacing said magazine to bring a selected one of said disks into said transport plane;

a main frame for receiving a single one of said subframes;

said main frame being movably carried by said chassis for movement between said first position and a second position whereat access is provided to a subframe received therein such that a disk may be one of inserted therein and removed therefrom.

154. A disk storage and playback device comprising:

a chassis;

an n-1 quantity of subframes, each of said subframes being adapted to receive a single disk;

Fig. 1
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a magazine, nondetachably carried by said chassis, said magazine being adapted to receive an n quantity of said subframes;

a mainframe;

n-1 of said subframes being received in said magazine when one of said subframes is received in said mainframe;

a disk reader adapted to read one of said disks when said disk is in a disk-reading position;

said mainframe being adapted to receive a single one of said subframes, said mainframe being movably carried by said chassis for movement between a first position at least partly inside said disk storage and playback device and a second position whereat access is provided to a subframe received therein such that a disk may be inserted therein;

and disk conveying means for transporting a selected one of said subframes from said magazine to said main frame when said main frame is in said first position.
